

EMERGENCY REVISIONS TO WASTE TIRE FACILITY REGULATIONS

Chapter 3 - Minimum Standards for Solid Waste Handling and Disposal

Article 5.5. Waste Tire Storage and Disposal Standards

17350. Scope.

(a) Any solid waste facility storing 500 or more waste tires or a major or minor waste tire facility which stores waste tires outdoors must comply with the technical and operational standards in sections 17351 through 17355 of this Article. Any facility that stores waste tires indoors must comply with the technical and operational standards in section 17356 of this Article. Waste tires that are disposed of by burying at a solid waste facility are addressed in section 17355 of this Article.

~~(b) This Article shall not apply to any facility that meets the requirements of section 18420(b) or (c) of Article 1, Chapter 6 of this Division.~~

Note

Authority cited: Section 40502, 42820, 42830 and 43020, Public Resources Code.

Reference: Sections 42820, 42821, 42830, 42832 and 43020, Public Resources Code.

Chapter 6 - Permitting Of Waste Tire Facilities

Article 1. General

18420. Applicability.

(a) The operator of a waste tire facility that stores, stockpiles, accumulates or discards waste tires shall acquire a waste tire facility permit in accordance with the requirements of this Chapter, unless any of the following conditions exist:

(1) The waste tires are stored or disposed at a solid waste disposal facility permitted pursuant to this Title. The permit of the solid waste facility shall be modified or revised pursuant to Public Resources Code (PRC) section 44014 and shall conform to the requirements of 14 CCR, Division 7, Chapter 3, Article 5.5.

(2) The facility is using fewer than 5000 waste tires for agricultural purposes and the waste tires have been rendered incapable of holding accumulations of water, including but not limited to, waste tires that have been shredded, chopped, drilled with holes sufficiently large to assure drainage, or slit longitudinally and stacked so as not to collect water.

(3) The facility is storing less than 500 waste tires.

~~(1) The waste tires are stored in an enclosed structure in accordance with section 17356(a), Article 5.5, Chapter 3.~~

~~(5)-(4)~~ The waste tires are stored in fully enclosed movable containers in accordance with section 17356(b) of Article 5.5, Chapter 3.

(5) An owner or operator of a tire treading business for the business site if not more than 3,000 waste tires are kept on the premises.

(b) Any operator of a waste tire facility operating without a permit in accordance with this section whose exemption from permit was revoked pursuant to these emergency regulations shall make a complete and acceptable application for a waste tire facility permit within 90 days of the effective date of these regulations. Upon acceptance of the permit application by the board, that operator may continue to operate without a permit during the permit-processing period until such time as the board either approves or denies the permit, at which time operations shall be in compliance with state minimum standards. If an acceptable application is not received within 90 days of the effective date of these regulations, or the board denies the permit, then operations shall cease immediately.

~~(b) For the purposes of this chapter, a business shall not be deemed to be storing, stockpiling, accumulating or discarding waste tires if, as a normal element of its business, it processes recyclable tires and ninety percent of all the recyclable and other waste tires received are not maintained on the business premises for more than 150 days. The total number of recyclable and other waste tires maintained on the premises for more than 150 days shall not exceed 25 percent of the number of recyclable and other waste tires received during the previous 150 day period. For the purpose of this subsection "processes" shall mean the retreading or remolding of recyclable tires, or the resale of recyclable tires that meet section 393.75 of Title 49, Code of Federal Regulations, October 1, 1977.~~

~~(c) For the purposes of this chapter, a business shall not be deemed to be storing, stockpiling, accumulating or discarding waste tires if ninety percent of all the waste tires received are not maintained on the business premises for more than 150 days and at no time are there 5000 or more waste tires maintained on the business premises. The total number of waste tires maintained on the premises for more than 150 days shall not exceed 25 percent of the number of waste tires received during the previous 150 day period.~~

~~(c)-(d)~~ For the purpose of determining applicability of this Chapter:

(1) The number of waste tires stored at any site shall be computed as the sum of the number of whole plus altered waste tires as defined in section 18422(a) of this Chapter.

(2) Operators who satisfy the requirements under subsections (a)(4) or (5) ~~or (b) or (c)~~, above, shall submit a completed form CIWMB 500 "Waste Tire Facilities Permit Application" (10/92), which is incorporated herein by reference. (See Appendix A.) The Board shall review the

Application to determine if the operator qualifies under subsections (a)(4) or (a)(5), ~~(b) or (c)~~ above.

(d) ~~(e)~~ For the purposes of Chapter 6, Articles 2 through 8 and Article 9 apply to operators and/or businesses described under Chapter 6, Article 1.

(e) ~~(f)~~ For the purposes of Chapter 6, Article 8.5 applies to the waste tire hauler registration program as described under Article 8.5.

Note

Authority cited: Sections 40502, 42820, and 42830, Public Resources Code.

Reference: Section 42820, 42830, 42831, 44014, Public Resources Code.

TITLE 14. NATURAL RESOURCES

DIVISION 7. CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Chapter 3. Minimum Standards for Solid Waste Handling and Disposal

Article 4.1. Waste Tire Program Definitions

The following definitions are to be used only for the purposes of Articles 4.2 and 5.5 of this Chapter and Chapter 6 of this Division.

§ 17225.808 Rough Shreds

"Rough shreds" are pieces of shredded tires that are larger than 50 mm by 50 mm by 50 mm (2 in. by 2 in. by 2 in.), but smaller than 762 mm by 50 mm by 100 mm (30 in. by 2 in. by 4 in.).

§ 17225.809 Rubber Fines

"Rubber fines" are small particles of ground rubber that result as a by-product of producing shredded rubber.

§ 17225.810 Tire Chips

"Tire chips" are pieces of waste tires that have a basic geometrical shape and are generally between 12 mm (0.5 in.) and 50 mm (2 in.) in size and have most of the wire removed.

§ 17225.811 Tire Shreds

"Tire shreds" are pieces of waste tires that have a basic geometrical shape and are generally between 50 mm (2 in.) and 300 mm (12 in.) in size.

§ 17225.812 Waste Tire Monofill

"Waste tire monofill" means a discrete unit as defined in Title 27, CCR, Division 2, Subdivision 1, Chapter 2, for disposal of only waste tires.

§ 17225.813 Waste Tire Monofill Facility

"Waste tire monofill facility" means a facility that handles waste tires for the purposes of disposal to a waste tire monofill or mining for recovery from a waste tire monofill.

Note: Authority cited: Sections 40502, 42820 and 42830, Public Resources Code.
Reference: Sections 21068, 21082.2, 42800, 42805, 42811, 42820 and 42830, Public Resources Code and Sections 15002, 15064, and 15382, State CEQA Guidelines.

1 **Article 4.2. Waste Tire Monofill Standards**

2
3 **§ 17226. Scope.**

4
5 (a) Any solid waste facility disposing or storing of 500 or more waste tires in a waste
6 tire monofill must comply with the technical and operational standards in Article 4.2.
7 Waste tires that are disposed of by burying at a permitted solid waste disposal facility
8 which does not have a permitted waste tire monofill, or the disposal of less than 500
9 tires at any disposal facility, are addressed in section 17355 of Article 5.5 of this
10 Chapter.

11
12 (b) For the purposes of this Article, disposal does not include the beneficial reuse of
13 waste tires in civil engineering projects provided: (1) design and as-built plans and
14 specifications are prepared, signed, and stamped by a civil engineer registered by the
15 State of California, pursuant to section 6762 of the Business and Professions Code, and
16 (2) all required local, state, and/or federal government approvals have been obtained.

17
18 (c) The requirements under this article shall only authorize and apply to the
19 subsurface storage or disposal of waste tires as pre-approved by the Board.

20
21 Note: Authority cited: Section 40502, 42820, 42830 and 43020, Public Resources
22 Code. Reference: Section 42820, 42821, 42830, 42832 and 43020, Public Resources
23 Code.

24
25 **§ 17227. Siting Criteria.**

26
27 (a) Waste tire monofill facilities shall not be sited in an area subject to inundation or
28 washout due to floods with a 100-year return period.

29
30 Note: Authority cited: Section 40502, 42820, 42830 and 43020, Public Resources
31 Code. Reference: Section 42820, 42821, 42830, 42832 and 43020, Public Resources
32 Code.

33
34 **§ 17228. Design and Construction Standards.**

35
36 (a) The operator of a waste tire monofill shall implement a construction quality
37 assurance (CQA) program to ensure that the waste tire monofill is constructed in
38 accordance with design plans and specifications prepared, signed, and stamped by a
39 civil engineer registered by the State of California, pursuant to section 6762 of the
40 Business and Professions Code.

41
42 (b) Waste tire monofills shall be designed and constructed with a low permeability
43 bottom liner system, or natural geologic materials, sufficient to withstand a fire and
44 satisfy the intended purpose of limiting the flow of potential contaminants out of the
45 monofill, and limiting the flow of oxygen and moisture into the monofill.

1 (c) Waste tire monofills shall be designed and constructed to minimize water from
2 entering or accumulated into fill areas, or ponding onto fill areas.

3
4 Note: Authority cited: Section 40502, 42820, 42830 and 43020, Public Resources
5 Code. Reference: Section 42820, 42821, 42830, 42832 and 43020, Public Resources
6 Code.

7
8 **§ 17229. Operating Criteria.**

9
10 (a) Storage of waste tires at a waste tire monofill facility shall comply with the
11 standards of Article 5.5 of this Chapter.

12
13 (b) Waste tires directly transported and disposed to the working face of a waste tire
14 monofill shall comply with the fire prevention and security measures specified in
15 sections 17351 and 17352 of Article 5.5 of this Chapter.

16
17 (c) Waste tires disposed in a waste tire monofill shall comply with the following
18 specifications, unless alternative specifications are approved pursuant to subsection (l):

19 (1) Tire pieces shall be chopped tires (ie. tires cut into eighths) or larger (ie. 12 inches
20 or larger, in any direction).

21 (2) Shreds smaller than 4 inches shall be limit to a maximum of 25% by weight in the fill
22 to prevent the potential occurrence of landfill fires;

23 (3) Metal fragments shall be limited to protruding no more than 2 in. (25 mm) from the
24 cut edge of tire shreds;

25 (3) Disposal of wood chips and any other fibrous flammable material shall be
26 prohibited;

27 (4) Disposal of contaminants, such as, oil, grease, gasoline, diesel fuel, etc. shall be
28 prohibited;

29 (5) Disposal of remains of tires that have been subjected to fire shall be prohibited;

30 (6) Disposal of factory-reject tire carcasses that have been only partially vulcanized
31 shall be prohibited.

32 (7) Disposal of rubber fines shall be restricted to a separate area of the monofill as a
33 discrete cell that is isolated from tire shred fill cells and mixed completely with organic
34 free earthen aggregate during the filling operations, or mixed with cover soil to preclude
35 contact with shreds.

36 (8) The last 12-inch layer of shreds shall have a maximum dimension measured in any
37 direction of 12 inches (305 mm), and at least one side wall shall be severed from the
38 tread of each tire. Alternatively, this layer may be replaced by a minimum of one-foot of
39 earthen material or a high strength geotextile.

40
41 (d) Representative samples of tire shreds disposed in a waste tire monofill shall be
42 collected and analyzed for gradation on a quarterly basis to ensure compliance with
43 subsection (c).

44
45 (e) Tire shreds disposed in a waste tire monofill shall be compacted to provide a flat
46 and stable surface over the last lift of tire shreds.

1
2 (f) Waste tire monofill cells shall be limited to a maximum thickness of 20-ft (6 m)
3 before an intermediate cover is placed. If more than one cell is stacked vertically,
4 temperature sensors shall be installed to monitor monofill temperatures. A fire
5 prevention plan shall be in place to address any zones which experience sustained
6 elevated temperatures. Monofill cells shall have a width and length of no more than 50-
7 ft by 250-ft (15 m by 76 m), respectively.

8
9 (g) A minimum of 6-inches of earthen cover material shall be placed over the entire
10 working face at the end of any operating day preceding a period of time greater than 24
11 hours when the facility is closed. Alternatively, the Board may approve use of a site
12 attendant and/or other measures if demonstrated by the operator to ensure control of
13 site security and prevention of landfill fires. Alternative cover materials and thicknesses
14 may be approved by the Board if demonstrated on a site specific basis to control landfill
15 fires. Waste tire monofills shall be operated to minimize direct infiltration of moisture
16 into the monofill during precipitation events.

17
18 (g) Interim cover shall be placed to wholly encapsulate each monofill cell. Interim
19 cover shall consist of earthen material compacted at a minimum thickness of 2 feet
20 (610-mm). Alternative interim cover materials and thicknesses may be approved by the
21 Board if demonstrated on a site specific basis to control landfill fires.

22
23 (h) A stockpile of earthen cover material and required equipment shall be available
24 to ensure cover on all tire shreds exposed to the atmosphere in the event of a fire.

25
26 (i) The operator may propose alternative operating criteria to subsections (b)
27 through (h) above, for approval by the Board. Proposals shall include demonstration
28 that the alternative operating criteria will prevent landfill fires and protect public health
29 and safety and the environment.

30
31 (j) Any mining or excavation of waste tires from a waste tire monofill shall be in
32 accordance with a site specific excavation and materials management plan approved by
33 the Board.

34
35 Note: Authority cited: Section 40502, 42820, 42830 and 43020, Public Resources
36 Code. Reference: Section 42820, 42821, 42830, 42832 and 43020, Public Resources
37 Code.

38
39 **§ 17230. Closure and Postclosure Maintenance Criteria.**

40
41 (a) A final cover consisting of a minimum of 4 feet of compacted earthen material
42 designed and constructed to control potential landfill fires by minimizing infiltration of
43 oxygen and moisture shall be placed over the entire waste tire monofill within 30 days of
44 last receipt of waste tires.

1
2 (b) The operator shall implement a construction quality assurance (CQA) program to
3 ensure that the waste tire monofill is closed in accordance with an approved final
4 closure plan. Upon completion of final closure, the operator shall submit to the Board or
5 enforcement agency for approval a certification that the solid waste landfill has been
6 closed in accordance with the approved final closure plan. The certification, with
7 supporting documentation, shall be prepared, signed, and stamped by a civil engineer
8 registered by the State of California, pursuant to section 6762 of the Business and
9 Professions Code.

10
11 (c) The operator shall ensure, after completion of closure, that the waste tire monofill is
12 maintained in accordance with an approved postclosure maintenance plan to ensure
13 integrity of the final cover system and protection of public health and safety and the
14 environment. The postclosure maintenance period shall continue for a minimum of 30
15 years or until the operator demonstrates to the satisfaction of the Board that the site no
16 longer poses a threat to public health and safety and the environment. Changes in
17 postclosure land use shall be approved by the Board.

18
19 (d) Upon completion of closure, the owner or operator shall file a description of the
20 closed waste tire monofill, including a map, with the Recorder of the County in which the
21 site is located. The site description shall include but not be limited to, the date the
22 closure was completed, the boundaries including height and depth of the fill area, and
23 the location where the closure and postclosure plans can be obtained, and a statement
24 that the future site use is restricted in accordance with the postclosure maintenance
25 plan.

26
27 Note: Authority cited: Section 40502, 42820, 42830 and 43020, Public Resources
28 Code. Reference: Section 42820, 42821, 42830, 42832 and 43020, Public Resources
29 Code.

30 31 **Chapter 6 - Permitting Of Waste Tire Facilities**

32 33 **Article 4.5. Permitting Requirements for Waste Tire Monofill Facilities**

34 35 **§ 18435. General**

36
37 The operator of a waste tire monofill facility shall obtain a major waste tire facility permit
38 in accordance with Articles 1-10 of this Chapter, as applicable, with the following
39 additional requirements:

40
41 (a) The operation plan for a waste tire monofill facility, as required by 18431(b) and
42 18432 of Article 4 of this Chapter shall demonstrate conformance with the technical
43 standards contained in 14 CCR Division 7, Chapter 3, Articles 4.2 and 5.5, as
44 applicable.

45
46 (b) The closure plan for a waste tire monofill facility, as required by 18431(e) and
47 18442 of Article 4 of this Chapter shall include a postclosure maintenance plan, and

1 shall demonstrate conformance with the technical standards contained in 14 CCR
2 Division 7, Chapter 3, Article 4.2, section 17230.

3
4 (c) Under closure conditions as prescribed in Article 4, section 18441 of this
5 Chapter, "destination facility(s)" may include a permitted waste tire monofill facility. If the
6 destination facility include an on-site permitted waste tire monofill facility, the hauler and
7 manifest requirements of that section do not apply.

8
9 (d) The operator may submit a financial mechanism approved by the Regional Water
10 Quality Control Board or the Department of Mines and Geology in lieu of a financial
11 mechanism for closure as required by Article 9 of this Chapter provided the approved
12 financial mechanism provides for an equivalent or more stringent closure than specified
13 in 14 CCR Division 7, Chapter 3, section 17230.

14
15 Note: Authority cited: Section 40502, 42820, 42830 and 43020, Public Resources
16 Code. Reference: Section 42820, 42821, 42830, 42832 and 43020, Public Resources
17 Code.

18
19 **§ 18436. Requirements at Solid Waste Disposal Facilities**

20
21 (a) A waste tire facility permit is not required for a waste tire monofill facility which is
22 located and listed as a permitted use at a permitted solid waste disposal facility.

23
24 (b) The permit of the solid waste facility shall be revised, if necessary, pursuant to
25 Public Resources Code (PRC) section 44014, and shall conform to the requirements of
26 14 CCR, Division 7, Chapter 3, Article 4.2.

27
28 (c) For the purposes of this section, all approvals required under siting and operating
29 criteria shall be issued solely by the enforcement agency, with the exception of 14 CCR
30 Division 7, Chapter 3, Article 4.2, section 17229(I), which shall be approved by the
31 enforcement agency with concurrence by the Board.

32
33 Note: Authority cited: Section 40502, 42820, 42830 and 43020, Public Resources
34 Code. Reference: Section 42820, 42821, 42830, 42832 and 43020, Public Resources
35 Code.